

(FILE 'USPAT' ENTERED AT 14:12:18 ON 06 NOV 1997)

L1 498 S GRAMICIDIN?
L2 204155 S ELECTRODE?
L3 3 S MEMBRANE(W)SPANNING(W)LIPID?
L4 49 S L1 AND L2
L5 24 S L4 AND LIPID?
L6 1 S L4 AND MERCAPTOACETIC ACID?
L7 4301 S 2(W)MERCAPTOETHANOL
L8 244 S L7 AND ELECTRODE?
L9 104 S L8 AND MEMBRANE?
L10 22 S L9 AND LIPID?
L11 7 S L10 AND DISULFIDE?
L12 490 S ELECTRODE? AND ((ION(W)CHANNEL?) OR IONOPHORE?)
L13 109 S L12 AND LIPID?
L14 98 S L13 AND MEMBRANE?
L15 16 S L14 AND GRAMICIDIN?
=> d 13 1-3

1. 5,637,201, Jun. 10, 1997, Sensor membranes; Burkhard Raguse, et al., 204/418, 403; 435/287.2, 287.9, 817; 436/71 [IMAGE AVAILABLE]

2. 5,436,170, Jul. 25, 1995, Receptor membranes; Bruce A. Cornell, et al., 436/527; 435/7.2; 436/518, 532 [IMAGE AVAILABLE]

3. 5,234,566, Aug. 10, 1993, Sensitivity and selectivity of ion channel biosensor membranes; Peter D. J. Osman, et al., 204/403, 416, 418, 426; 435/817; 436/806 [IMAGE AVAILABLE]
=> d 15 10

10. 5,328,847, Jul. 12, 1994, Thin membrane sensor with biochemical switch; George D. Case, et al., 205/778; 204/403; 422/68.1, 69; 435/287.1, 287.2, 817 [IMAGE AVAILABLE]
=> d 115 1-16

1. 5,658,781, Aug. 19, 1997, Insecticidally effective peptides; Karen J. Krapcho, et al., 435/6, 252.3, 320.1, 325, 348, 349, 418; 536/23.5, 24.3 [IMAGE AVAILABLE]

2. 5,658,563, Aug. 19, 1997, Insecticidally effective peptides; Karen J. Krapcho, et al., 424/93.2; 435/172.3, 320.1 [IMAGE AVAILABLE]

3. 5,637,201, Jun. 10, 1997, Sensor **membranes**; Burkhard Raguse, et al., 204/418, 403; 435/287.2, 287.9, 817; 436/71 [IMAGE AVAILABLE]

4. 5,591,647, Jan. 7, 1997, Analyte detection by competitive inhibition of **ion** **channel** gating; Lionel G. King, 436/518; 210/500.27; 422/82.02; 435/7.2, 7.5; 436/525, 528, 532, 806 [IMAGE AVAILABLE]

5. 5,461,032, Oct. 24, 1995, Insecticidally effective peptides; Karen J. Krapcho, et al., 514/12; 435/69.1 [IMAGE AVAILABLE]

6. 5,443,955, Aug. 22, 1995, Receptor **membranes** and **ionophore** gating; Bruce A. Cornell, et al., 435/7.21, 317.1; 436/501, 512, 518 [IMAGE AVAILABLE]

7. 5,436,170, Jul. 25, 1995, Receptor **membranes**; Bruce A. Cornell,

et al., 436/527; 435/7.2; 436/518, 532 [IMAGE AVAILABLE]

8. 5,401,378, Mar. 28, 1995, Ionic reservoir at **electrode** surface; Lionel E. King, et al., 204/418, 403; 205/778; 422/82.03; 435/817 [IMAGE AVAILABLE]

9. 5,378,342, Jan. 3, 1995, Neural modeling device; Mineo Ikematsu, et al., 204/403, 418; 422/82.01; 436/151, 806 [IMAGE AVAILABLE]

10. 5,329,847, Jul. 12, 1994, Thin **membrane** sensor with biochemical switch; George D. Case, et al., 205/778; 204/403; 422/68.1, 69; 435/287.1, 287.2, 817 [IMAGE AVAILABLE]

11. 5,286,365, Feb. 15, 1994, Graphite-based solid state polymeric **membrane** ion-selective **electrodes**; Frank R. Shu, 204/418, 416 [IMAGE AVAILABLE]

12. 5,234,566, Aug. 10, 1993, Sensitivity and selectivity of **ion** **channel** biosensor **membranes**; Peter D. J. Osman, et al., 204/403, 416, 418, 426; 435/817; 436/806 [IMAGE AVAILABLE]

13. 5,041,224, Aug. 20, 1991, Ion permeable **membrane** and ion transport method by utilizing said **membrane**; Junji Ohyama, et al., 210/500.27; 430/332 [IMAGE AVAILABLE]

14. 4,824,529, Apr. 25, 1989, **Lipid** **membrane**-based device; Michael Thompson, et al., 205/778; 204/403, 415; 205/780.5, 793; 324/425, 439; 435/4, 7.2, 7.8, 11, 287.2, 287.9, 817 [IMAGE AVAILABLE]

15. 4,517,303, May 14, 1985, Specific binding assays utilizing analyte-cytolysin conjugates; J. William Freytag, et al., 436/501; 435/4, 5, 7.21, 7.22, 7.23, 7.25, 7.31, 7.32, 7.5, 7.8, 7.9, 21, 36, 966, 972; 436/512, 520, 541, 803, 813, 815, 817, 827, 828, 829; 930/10, 240, 280, DIG.821 [IMAGE AVAILABLE]

16. 4,343,782, Aug. 10, 1982, Cytological assay procedure; Howard M. Shapiro, 435/7.2; 250/302, 304; 356/39; 435/29; 436/63 [IMAGE AVAILABLE]
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